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**METHOD AND APPARATUS FOR USING AN ON-BOARD TEMPERATURE  
SENSOR ON AN INTEGRATED CIRCUIT**

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**ABSTRACT OF THE DISCLOSURE**

An integrated circuit such as a processor measures its own temperature with a temperature sensor. The measured temperature is compared to an upper limit value stored in the integrated circuit. An output terminal of the integrated circuit is asserted

10 according to the comparison. In one mode of operation, the output terminal is asserted when the measured temperature is greater than the upper limit value and deasserted when the measured temperature goes below a lower limit value. A second output terminal is asserted when the temperature is above a second upper limit value, thereby indicating that temperature has exceeded a safe limit.

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